

[54] **ELECTROPHORETIC APPARATUS FOR THE QUANTITATIVE ELUTION OF PROTEINS OR POLYPEPTIDES FROM A GEL**

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[21] Appl. No.: 442,735

[22] Filed: Nov. 18, 1982

[30] Foreign Application Priority Data

Dec. 2, 1981 [DE] Fed. Rep. of Germany 3147611

[51] Int. Cl.⁴ G01N 27/28

[52] U.S. Cl. 204/301; 204/299 R

[58] Field of Search 204/180 R, 299 R, 301,
204/180 G

[56] References Cited

U.S. PATENT DOCUMENTS

3,533,933	10/1970	Strauch	204/180 G
3,579,433	5/1971	Dahlgren	204/299 R
3,773,648	11/1973	Van Welzen et al.	204/299 R
3,980,546	9/1976	Caccavo	204/299 R

OTHER PUBLICATIONS

Laemmli, Nature, vol. 227, "Cleavage of Structural

Proteins During the Assembly of the Head of Bacteriophage T4", pp. 680-685, 1970.

Jean O. Thomas et al, Proc. Nat. Acad. Sci. USA, vol. 72, No. 7, "An Octamer of Histones in Chromatin and Free in Solution", pp. 2626-2630, 1975.

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[57]

ABSTRACT

An apparatus for the quantitative elution of proteins or polypeptides from a gel by means of electrophoresis. The apparatus includes an upper chamber for holding a buffer solution containing the gel from which the proteins or polypeptides are to be eluted. An upper electrode is provided in the upper chamber. A lower chamber for holding a buffer solution is disposed beneath the upper chamber and includes a lower electrode. A septum separates the upper chamber from the lower chamber. A connecting passage in the septum connects the upper and lower chambers. A collecting capsule for the proteins or polypeptides is disposed at the end of the connecting passage in the lower chamber, and is adapted to be suspended in the buffer solution which is to be held in the lower chamber.

8 Claims, 1 Drawing Figure

